	Application No.	Applicant(s)
Notice of Allowability	10/605,757	KINNEY ET AL.
	Examiner	Art Unit
	Tu-Tu Ho	2818
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED 5) or other appropriate comm RIGHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>Amendment filed 09</u>	<u>5/06/2005</u> .	
2. The allowed claim(s) is/are <u>1-45</u> .		
3. A The drawings filed on 23 October 2003 are accepted by	the Examiner.	
 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents hat 2. Certified copies of the priority documents hat 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON	ve been received. ve been received in Applicat documents have been receiv " of this communication to fi	ion No ed in this national stage application from the
 THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gives the property of the property of		
6. CORRECTED DRAWINGS (as "replacement sheets") m (a) including changes required by the Notice of Draftspe 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examine Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 	erson's Patent Drawing Revie —· er's Amendment / Comment of the comme	or in the Office action of the drawings in the front (not the back) of
7. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SE Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Paper No. 3/08), 7. Examiner	nformal Patent Application (PTO-152) Summary (PTO-413), ./Mail Date <u>20050519</u> s Amendment/Comment s Statement of Reasons for Allowance
	wG/Nelms ry Patent Examiner ogy Center 2800	

DETAILED ACTION

Applicant's Amendment filed 05/06/2005 has been reviewed and placed of record in the file.

Election/Restrictions

1. Claims 1-32 are directed to an allowable product. Pursuant to the procedures set forth in the Official Gazette notice dated March 26, 1996 (1184 O.G. 86), claims 33-45, directed to the process of making or using the patentable product, previously withdrawn from consideration as a result of a restriction requirement, are now subject to being rejoined. Process claims 33-45 are hereby rejoined and fully examined for patentability under 37 CFR 1.104.

Allowable Subject Matter

2. Claims 1-45 are allowable over the prior art of record.

The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach or render obvious a conductive memory device and a method of manufacturing thereof with all exclusive limitations as recited in claims 1, 27, and 33, comprising a memory element including a first electrode; on the first electrode either: a first conductive metal oxide layer, a second conductive metal oxide layer, and a third conductive metal oxide layer, or: a bottom conductive metal oxide layer and a top conductive metal oxide layer; and a second electrode on the third conductive metal oxide layer or on the top conductive metal oxide layer; at least two of the first, second, and third conductive metal oxide layers comprising conductive

Application/Control Number: 10/605,757

Art Unit: 2818

metal oxides that are not identical to each other and at least one of the top and bottom conductive

Page 3

metal oxide layers being doped with a dopant.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu-Tu Ho whose telephone number is (571) 272-1778. The

examiner can normally be reached on 6:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, DAVID NELMS can be reached on (571) 272-1787. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tu-Tu Ho May 19, 2005 Supervisory Patent Examiner Technology Center 2800